

Application/Control Number: 10/820,840

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**CLMPTO**

**04/09/04**

**TC**

**Claims 1-14(Original)**

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1. A medical pump monitor system using a plurality of medical pumps to administer medical fluids and the like for a patient, monitoring flows of delivered fluids and alarm  
5 information of the medical pumps through cable communication and/or wireless communication,

wherein infusion circuitry creating means for setting/changing the connection conditions of infusion lines from the plurality of medical pumps, and  
10 administration passes and/or administration positions for the patient is provided, and it is made possible to display infusion circuitry data created in the infusion circuitry creating means on a monitor screen by operations by an operator of the medical pump monitor system.

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2. The pump monitor system according to claim 1, wherein reading means for reading an infusion circuitry diagram such as a handwritten diagram in the medical pump monitor system is provided, and it is made possible to make a choice  
20 by operator's operations on whether infusion circuitry information to be displayed during operation of the medical pump monitor system is information created using the infusion circuitry creating means or information created using said infusion circuitry diagram reading means.

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3. The medical pump monitor system according to claim 1, wherein said infusion circuitry creating means displays a

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sketch of the patient with respect to determination of the administration position for the patient, and inputting in the medical pump monitor system any position information in the sketch, thereby making a determination as  
5 administration closest to the inputted position information.

4. The medical pump monitor system according to claim 1, wherein said infusion circuitry creating means further  
10 comprises determining means for making a check for the infusion line not suited to a practical method for transfusion.

5. The medical pump monitor system according to claim 1,  
15 wherein said fluid delivery circuitry creation means can select an optimal pump arrangement pattern from a plurality of pump arrangement patterns registered in advance.

6. The medical pump monitor system according to claim 1,  
20 wherein the determining means makes a determination on existence of loop-shaped lines in the infusion line, and gives an alarm to the operator if there exist a loop shaped line.

7. The medical pump monitor system according to claim 1,  
25 wherein the determining means determines whether two or more of the infusion lines run directly from the medical

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pump, and gives an alarm to the operator if two or more of infusion lines run directly therefrom.

8. The medical pump monitor system according to claim 1, wherein the determining means determines whether the infusion line is ended at some midpoint without reaching the patient, and gives an alarm to the operator of the medical pump monitor system if the infusion line is ended at some midpoint.

9. The medical pump monitor system according to claim 1, wherein the determining means determines whether the infusion line is necessarily formed towards at least one position of the patient from the medical pump, and gives an alarm to the operator if the infusion line is not necessarily formed towards at least one position of the patient from the medical pump.

10. The medical pump monitor system according to claim 1, wherein the determining means determines whether the infusion line inserted into a specified portion of the patient is inserted into the patient again, and gives an alarm to the operator if the infusion line inserted into a specified portion of the patient is inserted into the patient again.

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11. The medical pump monitor system according to claim 1,  
wherein the determining means determines whether the  
infusion line from the operating medical pump is not  
connected to the patient, and gives an alarm to the operator  
5 if the infusion line from the operating medical pump is not  
connected to the patient.

12. The medical pump monitor system according to claim 1,  
wherein the monitor screen can display thereon real-time  
0 states or trends in arbitrary time ranges for at least any  
one of the amount of water, the urinary volume and the amount  
of electrolytes.

13. A controlling method for a medical pump monitor system  
5 using a plurality of medical pumps to administer medical  
fluids and the like for a patient, monitoring flows of  
delivered fluids and alarm information of the medical pumps  
through cable communication and/or wireless communication,  
comprising:

0 an infusion circuitry creating step of  
setting/changing the connection conditions of infusion  
lines from the plurality of medical pumps, and  
administration passes and/or administration positions for  
the patient; and

5 a step of making it possible to display infusion  
circuitry data created in the infusion circuitry creating

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means on a monitor screen by operations by an operator of the medical pump monitor system.

14. A computer readable memory storing therein program codes for controlling a medical pump monitor system using a plurality of medical pumps to administer medical fluids and the like for a patient, monitoring flows of delivered fluids and alarm information of the medical pumps through cable communication and/or wireless communication, comprising program codes of:

an infusion circuitry creating step of setting/changing the connection conditions of infusion lines from the plurality of medical pumps, and administration passes and/or administration positions for the patient; and

a step of making it possible to display infusion circuitry data created in the infusion circuitry creating means on a monitor screen by operations by an operator of the medical pump monitor system.

**Claims 15-22(Canceled)**